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INFORMATION REPORT

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COUNTRY

Hungary

SUBJECT

Specifications of the R-40 and R-42 Radios

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THIS IS UNEVALUATED INFORMATION

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1. [redacted] a project which dealt with stabilizing the R-40 radio, which is the short wave radio used in the Hungarian Army at the regimental level and above. As a result of this project, which lasted until about November 1955, [redacted] The data which appears below includes the description of both the R-40 and R-42. Generally speaking, these two sets are similar to each other. The R-42, however, has a greater capability.

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Three Phase Input: 3 x 220 $\frac{\text{R-40 and R-42}}{\text{ac}}$ or 3 x 380

Power Supply Output Voltage: 1000 V, 0.5 A
 500 V, 0.2 A
 180 V, 0.1 A
 6.3 V, 15.0 A

The power supply tubes in the R-42 are insured against cathode burning. In addition, the oscillating voltage is stabilized.

Weight and Use: Both sets weigh about 120 to 130 pounds and were originally built for station use only. They were later built into a Csepel 300 type truck and utilized as a mobile unit. The truck has an Icarus body and is equipped with a heating system, the heat being supplied from a coal stove placed outside the truck.

Frequency: $\frac{\text{R-40}}{2.5 \text{ to } 20 \text{ mc/second}}$ $\frac{\text{R-42}}{1.5 \text{ to } 12 \text{ mc/second}}$

High Frequency Performance on the Antenna: 100 to 140 Watt 180 to 240 Watt

Frequency Grades: Three grades Three grades

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Frequency Stability:

General Stability at 90% 5×10^{-3} 3×10^{-3}
Relative Humidity, Df

Heat Stability:

Minus 20° C to Plus 60° C 1×10^{-3} 2×10^{-4}

Antennas: Both units make use of the following three types of antennas.

- a) 42 feet high, automatic extension.
- b) 30 feet high, consisting of five, six foot high sections, supported by wooden posts.
- c) 18 feet high bendable automobile-type antenna

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2. The difference between the R-40 and the R-42 is that the multiplication ability of the frequency on the R-42 is greater than that for the R-40. Because of this ability the end grade of the R-42 can be used fully. The stability of the oscillator in the R-42 is accomplished by the ST tube and a shielded ceramic cap. The antenna tuning units convert to two outputs - one on the R-40 - and are free from all loading capacity. In comparison with the R-40, some places on the R-42 antenna provide three times as much energy as can be reached on the R-40.

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FIG. A.) THIS IS THE FRONT PANEL OF THE R-40 SHORT WAVE RADIO STA.

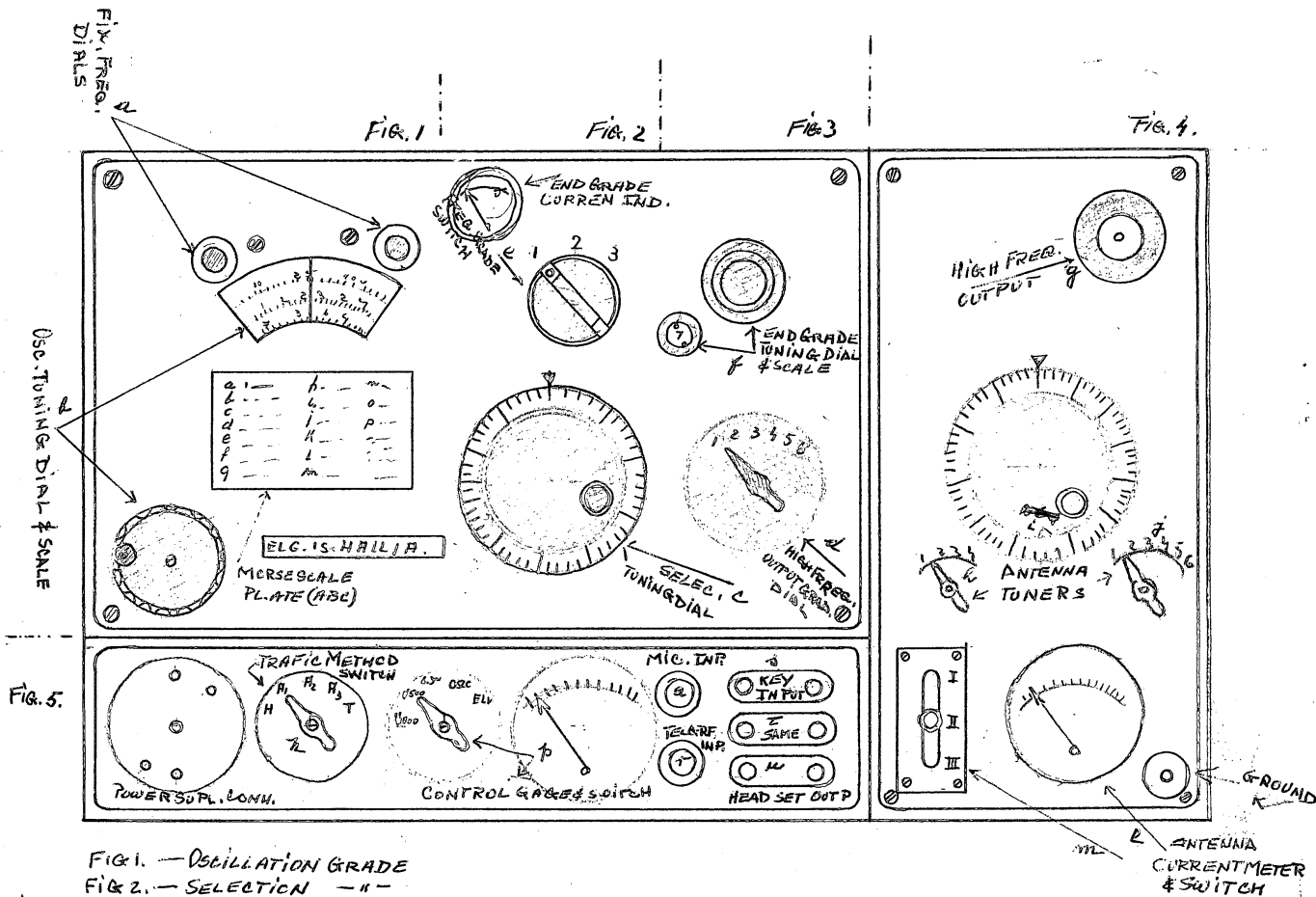


FIG. B.) THIS IS THE POWER SUPPLY OF FIG. A. RESP. R-40.

